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ORRANGAS PSOTRALEOS ORSON CLYHLLLOOV LLS L C C L S S S E L G V D
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C H F K T D S + O I K P T I A * * * * * * * * * * * * I F K O * * S L S K P O E C I D K L * * K T V L I V V C H A D F * L W V C A I L R R C P R N C M A D F * L W V C A I L R R C P R N C B A D F * L W V C A CITIANA CAGARATA CAGAR : > ; Y 0 1 0 > E 3 F S S Z - - > Z 8 ş 3 74 95 3 3 Ì 3 ì Į"¬

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1	æ	S N H K + U V S S V O C C L C L A R S I V G L G G G F S S H I S G I F K I N U L A I I S S H I A A I N A A C A H L F A O F E F F V G F P V I P C V P L R P F I I C S O V A I U D L P F L V P G O K H K R R R W V F D S H L R Y L + D O O + L I ACCARTCACACACACACACACACACACACACACACACACA
		U G S C R S + P L F X R K G G T C 9 4 K S L P T K T P Y P + S Y D L P H T 9 L L
	a	K A A V D L S H F L K E K C G L E G L 1 H S O P K D D 1 L D L M 1 V H T O G V F R O L O L W 1 V H T O G V F R O L O L O L L A T F O K K C D M K G O F T P N E D K I S L I C G S T T H K A T S CAAGGGAGTGTGAGAGAAAAGGGGAAGGGGAATTGAGTGCAAGAGAAAAGGGTAATTGAGTAGAAAAGAGAAAAGGGTAATTGAGTAGAAAAGAGAAAAGAGAATTGAGTGAAGAA
•	~	P • L A E L H I R A W C O I S T G L W H Y L U A S T S • A K • G R R G O • R P F P D W V E F D W W E E A W K G E H L G K I I I I J G U C S D I II • P L D G A I S • Y P Q L S • Y F P G K F E R I L G K I I I I J G U C S D I II • P L D G A I S • Y P O L S G I R • • K R P I I K F R I I G K I I I I J G U G C G G G G G G G G G G G G G G G G
	q	H 3 L V I P C E F A A G G P G E S V R V F V G O P S I S S R G P R A A S G F T S L L H P A R E L H P F F F S L H G P S I S S R G P R A S G C C I A A G F F H W A R E L H P F F S C C C L I A A G H F I T P P F S C I E S S A C N F I L A F H F I T P P F S C I E S S A C N F I L A F H F I T P P F S C I E S S A C N F I L A F H F I T P P F S C I E S S A C N F I L A F H F I T P P F S C I E S S A C N F S C I E S S A C N F I L A F H F I T P P F S C I E S S A C N F S C I E S S A C N F S C I E S
	૮	V LOE L T S S L L J G T F R L J L G L G G G R N L G L G G T G F A R A L R C C I W A G W N L G L G G T G F A R A L R C C I W A T S R T A R T R L R C C I W A T S R T A R T R R D F L G T F W G G G G G G G G G G G G G G G G G G
		S C F L P V L G L S G * 1 R F E P G S S L A H * G F H C L S L H K P S A L A L B L B F A * S L P P P D L S L S A L A L B F F A * S L P P P P D L S L S A L B L B F F A * S P P P P P P P P P P P P P P P P P P
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Fig 13

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CAACAGAGGAAGGAAGAAATGGAGCCAGTAGATCCTAGACTAGAGCCCTGGAAGCATCCAGGAAGTCAGCCTAA

5290 5300 5310 5320 5330 5340 5350

PSLFHNKSLRHLLAGEEAETATKTS
OVCFTTKALGIS.YGRKKRRQRRRPP
KFVSOQKP*ASPMAGRSGDSDEDL
CCAAGTTTGTTTCACAACAAAAGCCTTAGGCATCTCCTATGGCAGGAAGAGCGGAGACAGCGACGAAGACCTCC
5410 5420 5430 5440 5450 5460 5470

S T C N A T Y T N S N S S I S S S N N N S N S C V V H V M O P I Q I A I A A L V V A I I I A I V V A Y M + C N L Y K + Q + Q H + + + + O + + O + L C ACTACATGTAATGCAATACAATACAATACCAATACCAATACCAATACCAATACCAATACCAATACCAATACCAATACCAATACCAATACAATACCAATACCAATACAAA

C M R I * S V Y G I K A * S H V * N * P H S V L V
A * G Y N U F M G S K P K A M C K I N P T L C * F
H E D I I S L * D Q S L K P C V K L T P L C V S L
TGCATGAGGATAFAATCAGTTTATGGGATCAAAGCCTAAAGCCATGTGTAAAATTAACCCCACTCTGTGTTAGTTT
6010 6020 6030 6040 6050 6060 5070

I P I V V A G K * * W R K E R * K T A L S I S A 3
Y Q * * * * K G N D D G E R R D K K L L F O Y Q H K
T N S S S G E M M M E K G E I K N C S F N I S I S
ATACCAATAGTAGTAGCGGGGAAATGATGATGGAGAGAGGAGAGATAAAAAAACTGCTCTTTCAATATCAGCACAAC
6130 6140 6150 6160 6170 6180 6190

L I * Y Q * I M I L P A I R * J V V T P Q S L H R

* Y N T !! R * * Y Y Q L Y V D K L * H L S H Y T G

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* ITGATATA A TACCAATACA TAATGATACTACCAGCTATACGTTCACAAGTTGTAACACCTCAGTCATTACACAGGC

6250 6260 6270 6280 6290 6300 6310

PSLVER * NVII R R S M E O D H V Q M S A

G S O P K T A C T T C Y C K K C C F H C 58652

O E V S L K L L V P L A I V K S V A F I A

AGGAAGTCAGCCTAAAACTGCTTGTACCACTTGCTATTGTAAAAAGTGTTGCTTTCATTC

1 5350 5360 5320 2 R R P P Q G S G T H C V S L S K Q + V S D E D L L K A V R L I K F L Y Q S S K + AGCGACGAAGACCTCCTCAAGGCAGTCAGACTCATCAAGTTTCTCTATCAAAGCAGTAAGT 5480 5490 5500 5510 5520 S N S C V V H S N H R I * E N I K T K K ; A I V V N S I V I I E Y R K I L R O R K * O * L C G P * * S * N I G K Y * D K E K FAGCAATAGTTGTGTGGTCCATAGTAATCATAGAATATAGGAAAATATTAAGACAAAGAAA 5590 5600 5610 5620 R R N I S T C G D G G G N G A P C S L G GEISALVEMGVEMGHHAPWD KEKYOHLWRWGWKWGTMLLGI VAGGAGA AATA TCAGCACT TGTGGAGA TGGGGGGGAAA TGGGGGCACCA TGCTCCTTGGGA 5710 5720 5730 5740 C G F K Q P P L Y F V H D M L K H M I Q V E G S N H H S I L C I R C + S I + Y R V H K E A T T T L F C A S D A K A Y D T E TSTGGAAGGAAGCAACCACCACTCTATTTTGTGCATCASATGCTAAAGCATATGATACAG 5330 5840 5850 5 960 5870 5880 + Y N + M + O K I L T C G K M T W + N R
5 I G K C D R K F + H V E K + H G R T D
V V L V V T E N F N M W K N D M V E Q M TAGTATTGGTAAATGTGACAGAAAATTTTAACATGTGGAAAAATGACATGGTAGAACAGA 5960 5970 5980 5990 6000 5950 HISTY LV A STATE TWO G WITE LIFE POIL VIVE T L C & F K V H & F G E C Y & Y O & * *

P L C V S L K C T D L G N A T N T N S S N

CACTCTGTGTTAGTTTAAAGTGCACTGATTTGGGGAATGCTACTAATACCAATAGTAGTA) 5070 6090 6090 5100 6120 SISADA * E V R C P K N M H F F I N Q Y Q H K H K R * G A E R I C I F L * T F N I S T S I R G K V G K E Y A F F Y K L 6100 6200 6210 6220 6230 6240 Q S L H R P V Q R Y P L S Q F P Y I I V) .

SHYTGLSKGIL * ANSHTLLC VITGACPKVSFEPIPIHYCA S) V I T O A C P K V S F E P L P L H T U A CAGTCATTACACAGGCCTGTCCAAAGGTATCCTTTGAGCCAATTCCCATACATTATTGTG 6310 . 6320 6330 5340 6350

V Q M S A Q Y N V H M E L G Q + Y Q L N

P G W F C D S K M * | * # D V U W N R T M Y K C Q
P A G F A L L K C R N K T F N G T G P C T N V S

CCCCGGCTGGTTTTGCGATTCTAAAATGTAATAAGACGTTCAATGGAACAGGACCATGTACAAATGTCAGC
6370 6380 6390 6400 6410 6420 6430

C C * M A V * O K K R * * L D L P I S O T M L K P A V E W O S S R R R G S N * I C O F H R O C * N L L N G S L A E E E V V I R S A N F T D N A K T TGCTGTTGAATGGCAGTCTAGCAGAGAAGAGAGATAGTAATTAGATCTGCCAATTTCACAGACAATGCTAAAACC 6490 6500 6510 6520 6530 6540 6550

PTTIGEKVSVSRGDOGEHLLOFEK*
OCOYKKKYPYPEGTRESICYNRKN NNNTORKSIRIORGPGRAFVTIGKI CCAACAACAATACAAGAAAAGTATCCGTATCCAGAGGGGACCAGGGAGAGCATTTGTTACAATAGGAAAAATAI 6610 6620 6630 6640 6650 6660 6670

M P L * N R * L A N * E N N L E I I K Q * S L S N C H F K T D S * Q I K R T I W K * * N N N L * A : A : A T L K G I A S K L R E O F G N N K T I I F K G ATGCCACTTTAAAACAATAACCAATTAAGAGAACAATTAAGAAACAATAATCTTTAAGCAA 6730 6740 6750 6760 6770 6780 6790

H G N F S T V I Q H N C L I V L G L I V L G V L K
H G I F L L * F N T T V * * Y L V * * Y L E Y * S
S E F F Y C N S T 2 L F N S T W F N S T W S T E
GAGGGGAATTTTTCTACTGTAATTCAACACAACTGTTTAATAGTACTTGGTTTTAATAGTACTTGGAGTACTTGAAC
6850 6860 6870 6890 6890 6900 6910

E * N N L * T C G R K * E K Q C M P L P S A D K L N K T I Y K H V A G S R K S N V C P S H Q R T N ° I K Q F I N M H Q E V G K A M Y A P P I S G Q I GAATAAAACATTTATAAACATGTGGCAGGAAGTAGGAAAATGTATGCCCCTCCCATCAGGGGAAATT 6070 6980 6990 7000 7010 7020 7030

V I T T M G P R S S D L E E E I * G T I G E V N Y

* * O O W V R D L O T W R R R Y E G O L E K * I I

N N N N (N G S) E I F R P G G G D M R D N W R S E L

GTAATAACAACAATGGGTCCGAGATCTTCAGACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTAT

7090 7100 7110 7120 7130 7140 7150

PRQREEWCREKKEQWE*ELCSLGSWOGGKEKSGAERKKSSGNRSFVPWVLG KAKRRVVQREKRAVGIGALFLGFL CCAAGGCAAAGAGAGAGAGAGAAAAAAGAGCAGTGGGAATAGGAGCTTTGTTCCTTGGGTTCTTGG 7210 7220 7230 7240 7250 7260 7270

Y R P D N Y C L V * C S S R T I C * G L L R R N S
T G O T I I V H Y S A A A E D F A E G Y * G A T A
O A R O L L S G I V O Q O N N L L R A I E A O Q
TACAGGCCAGACAATTATTGTCTGGTATAGTGCAGCAGCAGAACAATTTGCTGAGGGCTATTGAGGCGCAACAGC
7330 7340 7350 7360 7370 7380 7390

ESALUKDT + RINSSWGFGVALENSF

NRTMYKCOHSTMYTWN A A S S I N S I G P C T N V S T V O C T H G I R O V V S T U I AACAGGACCATGTACAAATGTCAGCAGTACAATGTACACATGTACACATGGAATTAGGCCAGTAGTATCAACTCAAC O 6420 6420 6430 6440 6450 6450 6460 6470 6480

F H L L Q * E K * E I * D K H I V T L V F O N G
S I C Y N F K N R K Y E T S T L * H * S K M E
A F V T I G K I G N M R Q A H C N I S R A K W N
AGCATTTGTTACAATAGGAAAATAGGAAATATGAGACAAGCACATTGTAACATTAGTAGAGCAAAATGGA
D 6660 6670 6630 6690 6700 6710 6720

U T V L G V L K G Q I T L K F V T O S H S H A V T O S T S T E G S N N T E G S D T I T L P C R TTTAATAGTACTTGGAGGTCCAAATAACACTGAAGGAAGTGACACAATCACACTCCCATGCA O 6900 6910 6920 6930 6940 6950 6960

PLPSADKLDVHQILQGCY4QEMV
CPSHQRTN4MFIKYYRAAINKRWW
APPISGQIRCSS<mark>NIT</mark>GLLLTRDGGTG
TGCCCCTCCCATCAGCGGACAAATTAGATGTTCATCAAATATTACAGGGCTGCTATTAACAAGAGATGGTG
7020 7020 7040 7050 7060 7070 7080

G T I G E V N Y I N I K * * K L N H * E * H P
E G G L E K * I I * I * S S K V * T I R S S T H
R D N W R S E L Y K Y K V V K I E P L G V A P T
GAGGGACANTTGGAGAAGTGAATTATATAAATATAAAGTAGTAAAATTGAACCATTAGGAGTAGCACCCA
7 7140 7150 7160 7170 7180 7190 7200

PELCSLGSNEQDEALNANG D * R * R

RSFVPNVLGSSSRKHYGRTVNDADG

GALFLGFLGAAGSTTMGARSMTLTV

AGGAGCTTTGTTCCTTGGGGTCTTTGGGAGCAGCAGGAAGCACTATGGGGGCACGGTCAATGACGCTGACGG

7260 7270 7290 7290 7300 7310 7320

G V A L E N S F A P L L C L G M L V G V I N L

N P G C G K I P K G S T A P G D L G L L K T H
I L A V E R Y L K D O U L L G I H G C S G K L I
GAATCCTGGCTGTGGAAAGATACCTAAAGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGAAAACTCAT
7450 7460 7470 7480 7490 7500 7510

L L Y F L * * I E L G R D I H H Y R F R P T S Q F C C T F Y S E * S * A G I F T I I V S D P P P N A V L S I V /N R V R Q G Y S P L S F Q T H L P T TTGCTGTACTTTCTATAGTGAATAGAGTTAGGCAGGGATATTCACCATTATCGTTTCAGACCCACCTCCCAACC 7810 7820 7830 7840 7850 7860 7870

RETET DPF D * * T DP * H L S G T I C G A L ERUP DI H S I S E R I L S T Y L G R S A E P R D R D R S I R L V N G S L A L I W D D L R S L AGAGAGACAGAGACAGATCCATTCGATTAGTGAACGGATCCTTAGCACTTATCTGGGACGATCTGCGGAGCCTT 7930 7940 7950 7960 7970 7990 7990

T R I V E L L G & R G W E A L K Y W W N L L Q Y W R G L W N F W D A G G G K P S N I G G I S Y S I E D C G T S G T Q G V G S P Q I L V E S P T V L ACGAGGATTGTGGAACTTCTGGGGACGCAGGGGGGGGAAGCCCTCAAATATTGGTGGAATCTCCTACAGTATTC 8050 8050 8060 8110

A I A V A E G T D R V I E V V Q G A C R A I R H I
P + 3 + L R G Q I G L + K + Y K E L V E L F A T
H S S S + G D R + G Y R S S T R S L + S Y S P H
GCCATAGCAGTAGCTGAGGGGACAGATAGGGTTATAGAAGTAGCAACTTGTAGAGCTATTCGCCACAT
8170 8180 8190 8200 9210 3220 8230

G W Q V V K K ¢ C G W M A Y C K G K N E T S ¢ A S C G K W S K S S V V G W P T V R E R M R R A E P V A S G O K V V W L D G L L ¢ G K E ¢ D E L S C GGGTGGCAAGTGTGGTTGGTTGGTTGGCTTACTGTAAGGGAAAGAATGAGAGGCTGAGCCAG 8290 8300 8310 8320 8330 8340 8350

UGSCRS PLFKRKGGTG ANSL PITT

C G I * K Y S * * * * E A W * V * E * F
V V Y K N I H N D S R R L G R F K N S F
W Y I K I F I M I V G G L V G L/R/I V F
GTGGTATATAAAAATATTCATAATGATAGTAGGAGGCTTGGTAGGTTTAAGAATAGTTT
7750 7760 7770 7780 7790 7800

PTSQPQGDPTGPKE * KKKVE
PPPNPEGTROARRNRRWR
HLPTPRGPDRPEGIEEEGGE
CCACCTCCCAACCCCGAGGGGACCCGACAGGCCCGAAGGAATAGAAGAAGGTGGAG
7870 7830 7890 7900 7910 7920

I C G A L C L F S Y H R L R D L L L I V
S A E P C A S S A T T A * E T Y S * L *
L R S L V P L O L P P L E R L T L D C N
TCTGCGGAGCCTTGTGCCTCTTCAGCTACCACCGCTTGAGAGACTTACTCTTGATTGTA
7990 8000 8010 8020 8030 8040

L O Y M S O E L K N S A V S L L N A T S Y S I G V R N * R I V L L A C S M P O P T V L E S G T K E * C C * L A O C H S TCCTACAGTATTGGAGTCAGGAACTAAAGAATAGTGCTGTTAGCTTGCTCAATGCCACA 3110 8120 8130 8160

A I R H I P R R I R O G L E R I L L * D
L F A T Y L E E * D R A W K G F C Y K M
Y S P H T * K N K T G L G K D F A I R W
CTATTCGCCACATACCTAGAAGAATAAGACAGGCTTGGAAAGGATTTTGCTATAAGAT
8230 8240 8250 3260 8270 8280

T S * A S S R W G G S S I S R P G K T W
R A E P A A D G V G A A S R D L E K H G
E L S D Q D * G W E Q H L E T W K N M E
CGAGCTGAGCCAGCAGCAGCAGCAGCAGCATCTCGAGACCTGGAAAAACATGG
8350 8360 8370 8390 8390

AAGCTTGCCT TGAGTGCTTC AAGTAGTGTG TGCCCGTCTG FTGTGTGACT CTGGTAACTA GAGATCCCTC AGACCCTTTT AGTCAGTGTG GAAAATCTCT AGCAGTGGCG CCCGAACAGG GACTTGAAAG CGAAAGGGAA ACCAGAGGAG CTCTCTCGAC GCAGGACTCG GCTTGCTGAA GCGCGCACGG CAAGAGGCGA GGGGAGGCGA CTGGTGAGTA CGCCAAAAAT TTTGACTAGC GGAGGCTAGA AGGAGAGAGA TGGGTGCGAG AGCGTCAGTA TTAAGCGGGG GAGAATTAGA TCGATGGGAA AAAATTCGGT TAAGGCCAGG GGGAAAGAAA AAATATAAAT TAAAACATAT AGTATGGGCA AGCAGGGAGC TAGAACGATT CGCTGTTAAT CCTGGCCTGT TAGAAACATC AGAAGGCTGT AGACAAATAC TGGGACAGCT ACAACCATCC CTTCAGACAG GATCAGAAGA ACTTAGATCA TTATATAATA CAGTAGCAAC CCTCTATTGT GTGCATCAAA GGATAGAGA; AGCACAGCAA GCAGCAGCTG ACACAGGACA CAGCAGCCAG GTCAGCCAAA ATTACCCTAT " AGTGCAGAAC ATCCAGGGGC AAATGGTACA TCAGGCCATA TCACCTAGAA CTTTAAATGC ATGGGTAAAA GTAGTAGAAG AGAAGGCTTT CAGCCCAGAA GTGATACCCA TGTTTTCAGC ATTATCAGAA GGAGECACCC CACAAGATTT AAACACCATG CTAAACACAG TGGGGGGACA TCAAGCAGCC ATGCAAATGT TAAAAGAGAC CATCAATGAG GAAGCTGCAG AATGGGATAG AGTGCATCCA GTGCATGCAG GGCCTATTGC ACCAGGCCAG ATGAGAGAAC CAAGGGGAAG TGACATAGCA GGAACTACTA GTACCCTTCA GGAACAAATA GGATGGATGA CAAATAATCC ACCTATCCCA GTAGGAGAA TITATAAAAG ATGGATAATC CTGGGATTAA ATAAAATAGT ~1130

AAGAATGTAI AGCCCTACCA GCATTCTGGA CATAAGACAA GGACCAAAAG AACCCTTTAG 1150 1160 1170 1130 1190 1200
AGACTATGTA GACCGGTTC ATAAAACTCT AAGAGCCGAG CAAGCTTCAC AGGAGGTAAA AAATTGGATG ACAGAAACCT TGTTGGTCCA AAATGCGAAC CCAGATTGTA AGACTATTTT AAAAGCATTG GGACCAGCAG CTACACTAGA AGAAATGATG ACAGCATGTC AGGGAGTGGG AGGACCCGGC CATAAGGCAA GAGTTTTGGC TGAAGCAATG AGCCAAGTAA CAAATTCAGC TACCATAATC ATGCAAAGAG GCAATTITAG GAACCAAAGA AAGATTGTTA AGTGTTTCAA TTGTGGCAAA GAAGGGCACA TAGCCAGAAA TTGCAGGGCC CCTAGGAAAA AGGGCTGTTG GAAATGTGGA AAGGAAGGAC ACCAAATGAA AGATTGTACT GAGAGACAGG CTAATTTTTT AGGGAAGATC TGGCCTTCCT ACAAGGGAAG GCCAGGGAAT TTTCTTCAGA GCAGACCAGA GCCAACAGCC CCACCAGAAG AGAGCTTCAG GTCTGGGGTA GAGACAACAA CTCCCTCTCA GAAGCAGGAG CCGATAGACA AGGAACTGTA TCCTTTAACT TCCCTCAGAT CACTCTTTGG CAACGACCCC TCGTCACAAT AAAGATAGGG GGGCAACTAA AGGAAGCTCT ATTAGATACA GGAGCAGATG ATACAGTATT AGAAGAAATG AGTTTGCCAG GAAGATGGAA ACCAAAAATG ATAGGGGGAA TIGGAGGTIT TATCAAAGTA AGACAGTATG ATCAGATACT CATAGAAATC TGTGGACATA AAGCTATAGG TACAGTATTA GTAGGACCTA CACCTGTCAA CATAATTGGA AGAAATCTGT TGACTCAGAT TGGTTGCACT TTAAATTITC CCATTAGTCC TATTGAAACT GTACCAGTAA AATTAAAGCC AGGAATGGAT GGCCCAAAAG TTAAACAATG GCCATTGACA GAAGAAAAA TAAAAGCATT AGTAGAAATT TGTACAGAAA TGGAAAAGGA AGGGAAAATT TCAAAAATTG GGCCTGAAAA TCCATACAAT ACTCCAGTAT TTGCCATAAA GAAAAAAGAC AGTACTAAAT GGAGAAAATT AGTAGATTTC AGAGAACTTA ATAAGAGAAC TCAAGACTTC TGGGAAGTTC AATTAGGAAT ACCACATCCC GCAGGGTTAA AAAAGAAAAA ATCAGTAACA

Fig 90

GIALIGGAIG TEGESTEATEC ATATTTTTCA ETTECCTTAE ATGAAGACTT CAGGAAGTAT ACTGCATTTA CCATACCTAG TATAAACAAT GAGACAECAG GGATTAGATA TCAGTACAAT GTGCTTCCAC AGGGATGGAA AGGATCACCA GCAATATTCC AAAGTAGCAT GACAAAAATC TTAGAGCCTT TTAGAAAACA AAATCCAGAC ATAGTTATCT ATCAATACAT GGATGATTTG TATGTAGGAT CTGACTTAGA AATAGGGCAG CATAGAACAA AAATAGAGGA GCTGAGACAA CATCTGTTGA GGTGGGGACT TACCACACA GACAAAAAC ATCAGAAAGA ACCTCCATTC 2.720 CTTTGGATGG GTTATGAACT CCATCCTGAT AAATGGACAG TACAGCCTAT AGTGCTGCCA GAAAAAGACA GCTGGACTGT CAATGACATA CAGAAGTTAG TGGGAAAATT GAATTGGGCA AGTCAGATTT ACCCAGGGAT TAAAGTAAGG CAATTATGTA AACTCCTTAG AGGAACCAAA GCACTAACAG AAGTAATACC ACTAACAGAA GAAGCAGAGC TAGAACTGGC AGAAAACAGA GAGATTCTAA AAGAACCAGT ACATGGAGTG TATTATGACC CATCAAAAGA CTTAATAGCA GAAATACAGA AGCAGGGGCA AGGCCAATGG ACATATCAAA TTTATCAAGA GCCATTTAAA AATCTGAAAA CAGGAAAATA TGCAAGAACG AGGGGTGCCC ACACTAATGA TGTAAAACAA TTAACAGAGG CAGTGCAAAA AATAACCACA GAAAGCATAG TAATATGGGG AAAGACTCCT AAATTTAAAC TACCCATACA AAAGGAAACA TGGGAAACAT GGTGGACAGA GTATTGGCAA GCCACCTGGA TTCCTGAGTG GGAGTTTGTC AATACCCCTC CTTTAGTGAA ATTATGCTAC CAGTTAGAGA AAGAACCCAT AGTAGGAGCA GAAACGTTCT ATGTAGATGG GGCAGCTAGC AGGGAGACTA AATTAGGAAA AGCAGGATAT GTTACTAATA GAGGAAGACA AAAAGTTGTC ACCCTAACTG ACACAACAAA TCAGAAGACT GAGTTACAAG CAATTCATCT AGCTTTGCAG GATTCGGGAT TAGAAGTAAA TATAGTAACA GACTCACAAT ATGCATTAGG AATCATTCAA

GCACAACCAG ATAAAAGTGA ATCAGAGTTA GTCAATCAAA TAATAGAGCA GTTAATAAAA

Vig 3



AMGWAAAASS TCTATCTGGC ATGGGTACCA GCACACAAAS GAATTGGAGG AAATGAACAA GTAGATAAAT TAGTCAGTGC TGGAATCAGG AAAGTACTAT TTTTAGATGG AATAGATAAG GCCCAAGATG AACATGAGAA ATATCACAGT AATTGGAGAG CAATGGCTAG TGATTTTAAC CTGCCACCTG TAGTAGCAAA AGAAATAGTA GCCAGCTGTG ATAAATGTCA GCTAAAAGGA GAAGCCATGC ATGGACAAGT AGACTGTAGT CCAGGAATAT GGCAACTAGA TTGTACACAT TTAGAAGGAA AAGTTATCCT GGTAGCAGTT CATGTAGCCA GTGGATATAT AGAAGCAGAA GTTATTCCAG CAGAAACAGG GCAGGAAACA GCATACTTTC TTTTAAAATT AGCAGGAAGA TGGCCAGTAA AAACAATACA TACAGACAAT GGCAGCAATT TCACCAGTAC TACGGTTAAG GCCGCCTGTT GGTGGGCGGG AATCAAGCAG GAATTTGGAA TTCCCTACAA TCCCCAAAGT CAAGGAGTAG TAGAATCTAT GAATAAAGAA TTAAAGAAAA TTATAGGCCA GGTAAGAGAT CAGGCTGAAC ATCTTAAGAC AGCAGTACAA ATGGCAGTAT TCATCCACAA TTTTAAAAGA AAAGGGGGGA TTGGGGGGTA CAGTGCAGGG GAAAGAATAG TAGACATAAT AGCAACAGAC ATACAAACTA AAGAATTACA AAAACAAATT ACAAAAATTC AAAATTTTCG GGTTTATTAC AGGGACAGCA GAGATCCACT TTGGAAAGGA CCAGCAAAGC TCCTCTGGAA AGGTGAAGGG GCAGTAGTAA TACAAGATAA TAGTGACATA AAAGTAGTGC CAAGAAGAAA AGCAAAGATC ATTAGGGATT ATGGAAAACA GATGGCAGGT GATGATTGTG TGGCAAGTAG ACAGGATGAG GATTAGAACA TGGAAAAGTT TAGTAAAACA CCATATGTAT GTTTCAGGGA AAGCTAGGGG ATGGTTTTAT AGACATCACT ATGAAAGCCC TCATCCAAGA ATAAGTTCAG AAGTACACAT CCCACTAGGG GATGCTAGAT TGGTAATAAC AACATATTGG GGTCTGCATA CAGGAGAAAG ACACTGGCAT CTGGGTCAGG GAGTCTCCAT AGAATGGAGG AAAAAGAGAT ATAGCACACA AGTAGACCCT GAACTAGCAG ACCAACTAAT TCATCTGTAT TACTTTGACT GTTTTTCAGA

uq

LICILITATA AGAAAGUCCT TATTAGGACA TATAGTIAGC CCTAGGTGTG AATATCAAGC AGGACATAAC AAGGTAGGAT CYSTACAATA CTTGGCACTA GCAGCATTAA TAACACCAAA AAAGATAAAG CCACCTTTGC CTAGTGTTAC GAAACTGACA GAGGATAGAT GGAACAAGCC CCAGAAGACC AAGGGCCACA GAGGGAGCCA CACAATGAAT GGACACTAGA GCTTTTAGAG GAGCTTAAGA ATGAAGCTGT TAGACATTTT CCTAGGATTT GGCTCCATGG CTTAGGGCAA CATATCTATG AAACTTATGG GGATACTTGG GCAGGAGTGG AAGCCATAAT AAGAATTCTG CAACAACTGC TGTTTATCCA TTTCAGAATT GGGTGTCGAC ATAGCAGAAT AGGCGTTACT CAACAGAGGA GAGCAAGAAA TGGAGCCAGT AGATCCTAGA CTAGAGCCCT GGAAGCATCC AGGAAGTCAG CCTAAAACTG CTTGTACCAC TTGCTATTGT AAAAAGTGTT GCTTTCATTG CCAAGTTTGT TTCACAACAA AAGCCTTAGG CATCTCCTAT GGCAGGAAGA AGCGGAGACA GCGACGAAGA CCTCCTCAAG GCAGTCAGAC TCATCAAGTT TCTCTATCAA AGCAGTAAGT AGTACATGTA ATGCAACCTA TACAAATAGC AATAGCAGCA TTAGTAGTAG CAATAATAAT AGCAATAGTT GTGTGGTCCA TAGTAATCAT AGAATATAGG AAAATATTAA GACAAAGAAA AATAGACAGG TTAATTGATA GACTAATAGA AAGAGCAGAA GACAGTGGCA ATGAGAGTGA AGGAGAAATA TCAGCACTTG TGGAGATGGG GGTGGAAATG GGGCACCATG CTCCTTGGGA TATTGATGAT CTGTAGTGCT ACAGAAAAAT TGTGGGTCAC AGTCTATTAT GGGGTACCTG TGTGGAAGGA AGCAACCACC ACTCTATTTT GTGCATCAGA TGCTAAAGCA TATGATACAG AGGTACATAA TGTTTGGGCC ACACATGCCT GTGTACCCAC AGACCCCAAC CCACAAGAAG TAGTATTGGT AAATGTGACA GAAAATTTTA ACATGTGGAA AAATGACATG GTAGAACAGA TGCATGAGGA TATAATCAGT TTATGGGATC AAAGCCTAAA GCCATGTGTA AAATTAACCC CACTCTGTGT TAGTTTAAAG TGCACTGATT TGGGGAATGC TACTAATACC AATAGTAGTA לט

ATACCAATAG TAGTAGCGGG GAAATGATGA TGGAGAAAGG AGAGATAAAA AACTGCTCTT TCAATATCAG CACAAGCATA AGAGGTAAGG TGCAGAAAGA ATATGCATTT TTTTATAAAC TIGATATAAT ACCAATAGAT AATGATACTA CCAGCTATAC GTTGACAAGT TGTAACACCT CAGTCATTAC ACAGGCCTGT CCAAAGGTAT CCTTTGAGCC AATTCCCATA CATTATTGTG CCCCGGCTGG TTTTGCGATT CTAAAATGTA ATAATAAGAC GTTCAATGGA ACAGGACCAT TGCTGTTGAA TGGCAGTCTA GCAGAAGAAG AGGTAGTAAT TAGATCTGCC AATTTCACAG ACAATGCTAA AACCATAATA GTACAGCTGA ACCAATCTGT AGAAATTAAT TGTACAAGAC CCAACAACAA TACAAGAAAA AGTATCCGTA TCCAGAGGGG ACCAGGGAGA GCATTTGTTA CAATAGGAAA AATAGGAAAT ATGAGACAAG CACATTGTAA CATTAGTAGA GCAAAATGGA ATGCCACTTT AAAACAGATA GCTAGCAAAT TAAGAGAACA ATTTGGAAAT AATAAAACAA TAATCTTTAA GCAATCCTCA GGAGGGGACC CAGAAATTGT AACGCACAGT TTTAATTGTG GAGGGGAATT TITCTACTGT AATTCAACAC AACTGTTTAA TAGTACTIGG TITAATAGTA CTTGGAGTAC TGAAGGGTCA AATAACACTG AAGGAAGTGA CACAATCACA CTCCCATGCA GAATAAAACA ATTTATAAAC ATGTGGCAGG AAGTAGGAAA AGCAATGTAT GCCCCTCCCA TCAGCGGACA AATTAGATGT TCATCAAATA TTACAGGGCT GCTATTAACA AGAGATGGTG GTAATAACAA CAATGGGTCC GAGATCTTCA GACCTGGAGG AGGAGATATG AGGGACAATT GGAGAAGTGA ATTATAAA TATAAAGTAG TAAAAATTGA ACCATTAGGA GTAGCACCCA -7220 CCAAGGCAAA GAGAAGAGTG GTGCAGAGAG AAAAAAAGAGC AGTGGGAATA GGAGCTTTGT TCCTTGGGTT CTTGGGAGCA GCAGGAAGCA CTATGGGCCC ACGGTCAATG ACGCTGACGG TACAGGCCAG ACAATTATTG TCTGGTATAG TGCAGCAGCA GAACAATTTG CTGAGGGCTA W

SX.

TITUAGGEGEA ACAUCATETO TIGENACTEN CAGTETGGGG CATCHAGENG CICCAGGENA GAATCCTGGC TGTGGAAAGA TACCTAAAGG ATCAACAGCT CCTGGGGATT TGGGGTTGCT CTGGAAAACT CATTTGCACC ACTGCTGTGC CTTGGAATGC TAGTTGGAGT AATAAATCTC TGGAACAGAT TTGGAATAAC ATGACCTGGA TGGAGTGGGA CAGAGAAATT AACAATTACA CAAGCTTAAT ACATTCCTTA ATTGAAGAAT CGCAAAACCA GCAAGAAAAG AATGAACAAG AATTATTGGA ATTAGATAAA TGGGCAAGTT TGTGGAATTG GTTTAACATA ACAAATTGGC TGTGGTATAT AAAAATATIC ATAATGATAG TAGGAGGCTT GGTAGGTTTA AGAATAGTTT TTSCTGTACT TTCTATAGTG AATAGAGTTA GGCAGGGATA TTCACCATTA TCGTTTCAGA CCCACCTCCC AACCCCGAGG GGACCCGACA GGCCCGAAGG AATAGAAGAA GAAGGTGGAG AGAGAGACAG AGACAGATCC ATTCGATTAG TGAACGGATC CTTAGCACTT ATCTGGGACG ATCTGCGGAG CCTTGTGCCT CTTCAGCTAC CACCGCTTGA GAGACTTACT CTTGATTGTA ACGAGGATTG TGGAACTTCT GGGACGCAGG GGGTGGGAAG CCCTCAAATA TTGGTGGAAT CTCCTACAGT ATTGGAGTCA GGAACTAAAG AATAGTGCTG TTAGCTTGCT CAATGCCACA GCCATAGCAG TAGCTGAGGG GACAGATAGG GTTATAGAAG TAGTACAAGG AGCTTGTAGA .8240 GCTATTCGCC ACATACCTAG AAGAATAAGA CAGGGCTTGG AAAGGATTTT GCTATAAGAT GGGTGGCAAG IGGTCAAAAA GTAGTGTGGT IGGATGGCCT ACTGTAAGGG AAAGAATGAG ACGAGCTGAG CCAGCAGCAG ATGGGGTGGG AGCAGCATCT CGAGACCTGG AAAAACATGG AGCAATCACA AGTAGCAATA CAGCAGCTAC CAATGCTGCT TGTGCCTGGC TAGAAGCACA AGAGGAGGAG GAGGTGGGTT TTCCAGTCAC ACCTCAGGTA CCTTTAAGAC CAATGACTTA TCACTCCCAA CGAAGACAAG ATATCCTTGA TCTGTGGATC TACCACACAC AAGGCTACTT

CCCTGATIGG CAGAACTACA CACCAGGGCC AGGGGTCAGA TATCCACTGA CCTTTGGATG GTGCTACAAG CTAGTACCAG FTGAGCCAGA TAAGGTAGAA GAGGCCAATA AAGGAGAGAA . 8300 CACCAGCTTG TTACACCCTG TGAGCCTGCA TGGAATGGAT GACCCTGAGA GAGAAGTGTT AGAGTGGAGG TTTGACAGCC GCCTAGCATT TCATCACGTG GCCCGAGAGC TGCATCCGGA GTACTTCAAG AACTGCTGAC ATCGAGCTTG CTACAAGGGA CTTTCCGCTG GGGACTTTCC 8990 . . 9000 8970. AGGGAGGEGT GGEETGGGEG GAACTGGGGA GTGGEGAGEE ETCAGATGET GEATATAAGE AGCTGCTTTT TGCCTGTACT GGGTCTCTCT GGTTAGACCA GATTTGAGCC TGGGAGCTCT CTGGCTAACT AGGGAACCCA CTGCTTAAGC CTCAATAAAG CTT

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